

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Original) A method for modifying a standard model based on measured data, comprising the steps of:

modifying the standard model prepared in advance of modification in accordance with the measured data and deciding whether to further modify the standard model or to finish the modification of the standard model based on integrated evaluation of two or more functions selected from a first function relating to a distance between the standard model and the measured data, a second function relating to a distance between a characteristic point defined on the standard model and a characteristic point specified on the measured data and corresponding to the characteristic point defined on the standard model and a third function relating to a distance between an outline defined on the standard model and an outline specified on the measured data and corresponding to the outline on the standard model.

2. (Previously Presented) The method according to claim 1, wherein
the first function, the second function and the third function are energy functions,
the integrated evaluation is performed by evaluating a total value of two or more energy functions, and
the modification is completed and a shape model is produced when it is judged that the total value is converged.

3. (Previously Presented) The method according to claim 2, wherein
an energy function is defined as a fourth function for avoiding excessive modification of
the standard model,
the integrated evaluation is performed by evaluating a total value of the four functions,
and
the modification is completed and a shape model is produced when it is judged that the
total value is converged.

4. (Original) The method according to claim 1, wherein weight in the integrated
evaluation is determined based on:

the measured data when the first function is used for the integrated evaluation;
the characteristic point specified on the measured data when the second function is used
for the integrated evaluation; or
the outline specified on the measured data when the third function is used for the
integrated evaluation.

5. (Previously Presented) A method for modifying a standard model on which a plurality
of control points are defined based on measured data, comprising the steps of:

modifying the standard model which is prepared in advance of modification based on the
measured data, wherein the standard model is modified by manipulating control points on the
standard model; and

deciding whether to further modify the standard model or to finish the modification of the
standard model based on integrated evaluation of a first function relating to a distance between

whole or a part of the standard model to be modified based on a first control points of the plurality of control points and a part of the measured data corresponding to the whole or a part of the standard model and a second function relating to a distance from a part of the standard model to be modified by a second control points of the plurality of points and a part of the measured data corresponding to the part of the standard model.

Claims 6-16 (Cancelled)

17. (Original) A method for generating a three-dimensional model of an object. comprising the steps of:

preparing measured data and a standard model of the object; and

modifying the standard model in accordance with the measured data, wherein

it is decided whether to further modify the standard model or to finish the modification of the standard model based on integrated evaluation of two or more functions selected from a first function relating to a distance between the standard model and the measured data. a second function relating to a distance between a characteristic point defined on the standard model and a characteristic point specified on the measured data and corresponding to the characteristic point defined on the standard model and a third function relating to a distance between an outline defined on the standard model and an outline specified on the measured data and corresponding to the outline on the standard model.

18. (Cancelled)